Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Compl te if Known			
IN	IFORMATIO	אות וא	CLOSURE	Application Number	N/A		
				Filing Date	Herewith		
STATEMENT BY APPLICANT				First Named Inventor	Thomas C. McDonald		
	(use as many s	sheets as	necessary	Group Art Unit			
				Examiner Name			
Sheet	1	of	1	Attorney Docket Number	CNTR.2144		

-	Cita	U.S. Patent Do	cument	Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevant
Examiner Iniliais	Cite No.	Number	Kind Code ²	of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
11	AA	5687349		McGarity	11/11/1997	
W	AB	5761723		Black et al	06/02/1998	
W	AC	6279105		Konigsuburg et al	08/21/2001	
			 -		 	
						
<u>-</u>	 		 	· · · · · · · · · · · · · · · · · · ·	 	

		 	 -			
,.					<u> </u>	
			 		 	
			 		 	

Examiner	Cita	Foreign Patent Do	cument	Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevant
Initials	Cite No.1	Number ⁴	Kind Code ⁵	of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
			ľ	•		
		······				
- ,		. ,	·			
	-		· · · · · ·		 	
·	-		 	· · · · · · · · · · · · · · · · · · ·	 	
			 			
			 			
			1			

Examiner Signature	Jose	Mill	Date Considered	3/27/2006
				

*EXAMINER: Initial interence considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Complete if Known Substitute for form 1449A/PTO **Application Number** 10/632219 INFORMATION DISCLOSURE Filing Date 7/31/2003 First Named Inventor THOMAS C. MCDONALD STATEMENT BY APPLICANT **Group Art Unit** 2183 (use as many sheets as necessary **EDDIE CHAN Examiner Name** Sheet Attorney Docket Number **CNTR.2144**

1 1 2005

U.S. PATENT DOCUMENTS										
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2(i known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures					
m		5706491	01-06-1998	Steven C. McMahan	Appear					
71		5313634	05-17-1994	James Eickemeyer						
- 	+	5961629	10-05-1999	Nguyen et al						
- .	1	5832289	11-03-1998	Shaw et al						
		5828901	10-27-1998	O'Toole et al	· · · · · · · · · · · · · · · · · · ·					
		5864707	01-26-1999	Tran et al						
		6035391	03-07-2000	David L. Isaman						
1		5353421	10-04-1994	Emma et al	·					
	 	6081884	06-27-2000	Paul K. Miller						
		6250821	06-26-2001	Greg Schwendinger						
		5805877	09-08-1998	Black et al						
<u> </u>		5948100	09-07-1999	Hsu et al						
		6233676	05-15-2001	Henry et al						
<u> </u>		5623615	04-22-1997	Salem et al						
		6175897	01-16-2001	Ryan et al						
		5734881	03-31-1998	White et al						
		6260138	07-10-2001	Jeremy G. Harris						
		6823444	11-23-2004	Henry et al						
		6256727	07-03-2001	Robert Greg McDonald						
		5931944	08-03-1999	Ginosar et al						
		5881260	03-09-1999	Raje et al						
		4860197	08-22-1989	Langendorf et al						
		5142634	08-25-1992	Fite et al						
		5163140	11-10-1992	Stiles et al						
V	1.	5404467	04-04-1995	Saba et al						

Examiner Signature	love - Mill	Date Considered	7/	127/	2006
Olgridadic	1000	Control		ν_{II}	

*EXAMINER: Initial of reference considered, whather or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449A/	PTO.			Complete if Known		
				Application Number	10/632219	
INFORM	ATION DISC	LOS	JRE	Filing Date	7/31/2003	
STATEN	MENT BY AP	PLiC/	ANT	First Named Inventor	THOMAS C. MCDONALD	
				Group Art Unit	2183	
(use as	s many sheets as ne	ecessary		Examiner Name	EDDIE CHAN	
Sheet	2	of	4	Attorney Docket Number	CNTR.2144	

	U.S. PATENT DOCUMENTS										
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2(If known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear						
M		5687360	11-11-1997	Po-Hua Chang							
7		5867701	02-02-1999	Brown et al							
		5964868	10-12-1999	Gochman et al							
		5974543	10-26-1999	Hilgendorf et al							
		5978909	11-02-1999	Oded Lempel							
		6088793	07-11-2000	Liu et al	-						
		6151671	11-21-2000	D'Sa et al							
		6314514	11-06-2001	Thomas C. McDonald							
		6502185	12-31-2002	Keller et al							
		6601161	07-29-2003	Rappoport et al							
		6647467	11-11-2003	Eric M. Dowling							
		5355459	10-11-1994	Matsuo et al							
		5850543	12-15-1998	Shiell et al							
		6108773	08-22-2000	Col et al							
		5513330	04-30-1996	David R. Stiles							
		6457120	09-24-2002	Balaram Sinharoy							
		5634103	05-27-1997	Dietz et al							
		6044459	03-28-2000	Bae et al							
		5530825	06-25-1996	Black et al							
		5812839	09-22-1998	. Hoyt et al							
		5604877	02-18-1997	Hoyt et al							
		6134654	10-17-2000	Patel et al							
		4181942	01-01-1980	Forster et al							
		5881265	03-09-1999	McFarland et al	:						
		5968169	10-19-1999	James K. Pickett							
V		6085311	07-04-2000	Narayan et al							

Examiner /	Date	
	1	(/2 -7/2 22/
Signature / White	Considered	3/6/1/2006
		707700

^{*}EXAMINER: Inftial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

Applicant is to place a check mark here in English ranguage Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Substitute for form 1449A/	PTO			Complete if Known		
Substitute for form 144974	FIO			Application Number	10/632219	
INFORM	IATION DISC	LOSI	JRE -	Filing Date	7/31/2003	
STATE	MENT BY AP	PLIC/	ANT	First Named Inventor	THOMAS C. MCDONALD	
				Group Art Unit	2183	
(use a	s many sheets as ne	ecessary		Examiner Name	EDDIE CHAN	
Sheet	3	of_	4	Attorney Docket Number	CNTR.2144	

U.S. PATENT DOCUMENTS									
Examiner Cite No.1		Document Number Number-Kind Code ^{2(d known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figure Appear				
M			10-23-2001	David B. Witt					
1		5623614	04-22-1997	Van Dyke et al					
		5768576	06-16-1998	Hoyt et al					
		6170054	01-02-2001	Mitchell Alexander Poplingher					
		6279106	08-21-2001	James S. Roberts					
·		2002194464	12-19-2002	Henry et al					
		5721855	02-24-1998	Hinton et al					
	<u> </u>	4200927	04-29-1980	Hughes et al					
		6185676	02-06-2001	Poplingher et al.					
		5394530	02-28-1995	Mayumi Kitta					
		6886093	04-26-2005	G. Glenn Henry					
	1.	20040030866	02-12-2004	Thomas C. McDonald					
		20020194461	12-19-2002	· Henry et al.					
		20020194460	12-19-2002	Henry et al.					
		20050132175	06-16-2004	Henry et al.					
		20050044343	02-24-2005	Henry et al.					
		20020188833	12-12-2002	Henry et al.					
		20050114636	05-26-2005	McDonald et al.					
		20040139301	07-15-2004	Thomas C. McDonald					
		20040143727	07-22-2004	Thomas C. McDonald					
		20040139292	07-15-2004	Thomas C. McDonald					
V		20050076193	04-07-2005	Henry et al.					
	1 1		1						

Examiner	1	MAL	Date	2/2 7/2006
Signature	Chesse	1000	 Considered	3/6//2006

^{*}EXAM:NER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Substitute for form 1449A/F	TO.			Complete if Known		
Substitute for form 1445/VF				Application Number	10/632219	
INFORM	ATION DISC	CLOS	URE	Filing Date	7/31/2003	
STATEMENT BY APPLICANT				First Named Inventor	THOMAS C. MCDONALD	
,				Group Art Unit	2183	
(use as many sheets as necessary				Examiner Name	EDDIE CHAN	
Sheet	4	of	4	Attorney Docket Number	CNTR.2144	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ²
1	AA Microprocessor Report. Vol.9. No.2. February 16, 1995. page 5		
1	АВ	Microprocessor Report. August 23, 1999. page 7	
	AC	YEH ET AL. Alternative Implementation of Two-Level Adaptive Branch Prediction. 19th Annual International Symposium on Computer Architecture. Pp124-134. May 19-21, 1992. Gold Coast, Australia	
	AD	CHANG ET AL. Alternative Implementations of Hybrid Branch Predictors. Proceedings of MICRO-28. 1995. IEEE.	
	AE	MC FARLING, SCOTT. WRL Technical Note TN-36. "Combining Branch Predictors. June 1993. Western Research Laboratory, 250 University Ave., Palo Alto, CA 94301	
	AF	BRAY ET AL. Strategies For Branch Target Buffers. Technical Report No. CSL-TR-91-480. June 1991.	
	AG	SAKAMOTO ET AL. Microarchitecture Support for Reducing Branch Penalty in a Superscaler Processor. Pp 208-216. Mittsubishi Electric Corp. 4-1 Mizuhara, Itami, Hyogo 664. Japan, 1996. IEEE.	
	АН	IEEE 100, The Authoritative Dictionary of IEEE Standard Terms, Seventh Edition. The Institute of Electrical Engineering, Inc. New York: Standards Information Network IEEE Press Page 135.	

Examiner Signature /	lose	Mill	Date Considered	3/2	.7/2006

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

PTO/SB/08A (08-03)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

SEP 2 8 2005

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary

Sheet 1 of

Complete if Known					
Application Number	10/632219				
Filing Date	7/31/2003				
First Named Inventor	Thomas C. McDonald				
Group Art Unit	2183				
Examiner Name	Eddie Chan				
Attorney Docket Number	CNTR.2144 .				

			U.S. PATENT	U.S. PATENT DOCUMENTS								
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where							
Initials*	No.1	Number-Kind Code ^{2(il known)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear							
W		5850532	12-15-1998	Narayan et al								
m		5752069	05-12-1998	Roberts et al.								
7												
,												
			·									
		•										

1

		FOREIG	N PATENT DO	CUMENTS		
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	
Initials*	No.1	Country Code ³ - Number ⁴ - Kind Code ⁵ (* known)	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T⁵
	<u> </u>				·	├
	-				•	├
: -						—
						↓
		·				<u> </u>
			I			

Examiner Signature	lose MM	Date 3/27/2006	
	7		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Inter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute to Control

PTO/SB/08A (08-03)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary

Sheet

Coi	mplete if Known	
Application Number	10/632219	
Filing Date	7/31/2003	
First Named Inventor	Thomas C. McDonald	
Group Art Unit	2183	
Examiner Name	Eddie Chan	
Attorney Docket Number	CNTR.2144	

	U.S. PATENT DOCUMENTS							
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where			
Initials*	No.¹	Number-Kind Code ^{2(If known)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear			
M		20050198481	09-08-2005	Henry et al.				
M		20050198479	09-08-2005	Bean et al.				
Mr.		6895498	05-17-2005	McDonald et al.				
7					·			
-								
				·				
}								

		FOREIC	N PATENT DO	CUMENTS		
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	. ₋₆
Initials*	No.¹	Country Code ³ - Number ⁴ - Kind Code ⁵ (# known)	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	Ľ
						╀
						╀╌
						╀
						╁
						十
			· · · · · · · · · · · · · · · · · · ·			十
- <u></u>						T

Examiner Signature	we Mill	Date Considered	3/27/2006	
1000				
	 •		1 7	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance end not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. The reign of the Emperor must precede the serial number of the patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent applicants. Document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.